

California Water Plan Update 2018

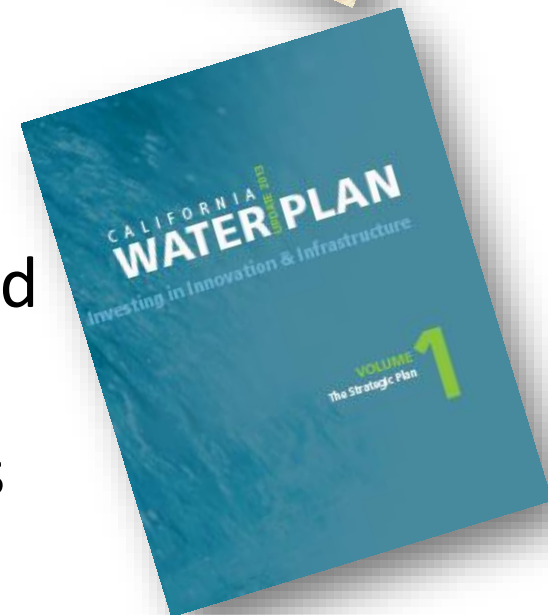
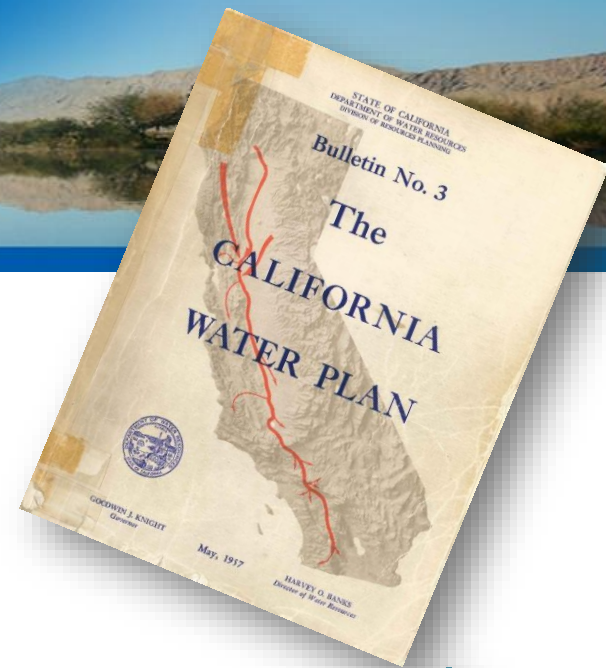
Tribal Advisory Committee Inaugural Meeting

Harrah's Resort
Southern California
April 27, 2017



The California Water Plan

- First published in 1957 as Bulletin 3
- Water Code requires DWR to update Water Plan every 5 years – updated 10 times
- Strong nexus with Governor's Water Action Plan
- Tool for guiding investment priorities and legislative action
- Update 2013 lays out recommendations -- no mandates or appropriations



Building from Update 2013

- Status and trends of CA water management
 - Data collection & analysis
 - Statewide water balances
 - Weaving information into a California narrative
- Decision support
 - Strategic water plan
 - Technical analyses
 - Future scenarios / vulnerability assessment
 - Management response evaluation



Building from Update 2013

- Assessment of current & future water resource conditions, risks, challenges, and opportunities
- 200 future land, climate, and water use scenarios
- 12 regional reports
- 30+ resource management strategies
- 17 objectives & 350 recommendations
- **More emphasis on:**
 - Finance Planning
 - Groundwater, Flood, & Ecosystems
 - Identifying societal values
 - Sustainability indicators & progress reporting
 - State agency engagement & alignment
 - Enhancing data and analysis



Update 2013 Framed Why We Should Care

Reduced Prosperity for Future Generations

- Greater Drought Impacts - Unreliable Water Supplies
- Increasing Flood Risk
- Groundwater Depletion and Subsidence
- Degraded Water Quality
- Declining Environmental Conditions
- Aging Infrastructure
- Climate Change Impacts



Low water level at Folsom Lake (January 2014)

Update 2013 Scoped and Framed Integrated Water Management



Three Themes of Update 2013

- Commit to Integrated Water Management
- Strengthen Government Agency Alignment
- Invest in Innovation and Infrastructure

Integrated Water Management

System flexibility and resiliency
Advocacy from implementers and financiers
Delivery of benefits using fewer resources

Government Agency Alignment

Clarification of state roles
Reduction in implementation time and costs
Efficient achievement of multiple objectives

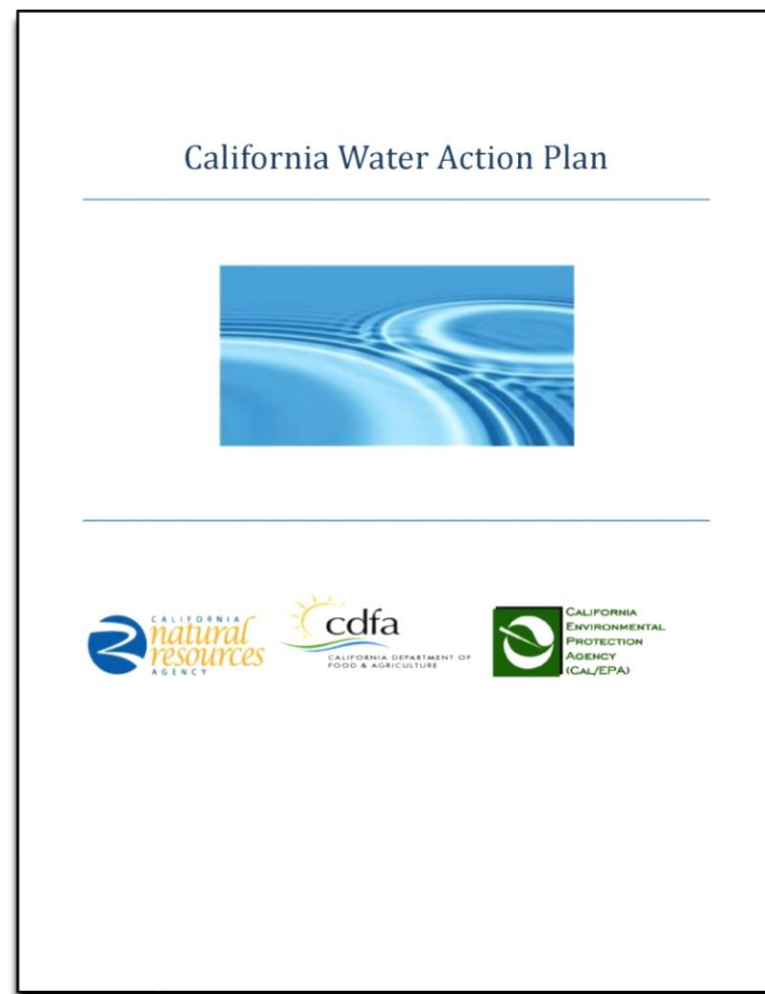
Investment in Innovation and Infrastructure

Stable and strategic funding
Priority-driven funding decisions
Equitable and innovative finance strategies

Governor's Water Action Plan

A 5-Year Plan to Meet 3 Broad Goals

- **Reliability --**
more reliable water supplies
for our farms & communities
- **Restoration –**
restoring important
wildlife habitat & species
- **Resilience --**
more resilient, sustainably
managed water systems
& environment (supply,
quality, flood protection &
ecosystems)



Governor's Water Action Plan

A Diverse Water Portfolio of 10 Priority Actions

1. Make conservation a California way of life
2. Increase regional self-reliance and integrated water management across all levels of government
3. Achieve the co-equal goals for the Delta
4. Protect and restore important ecosystems
5. Manage and prepare for dry periods
6. Expand water storage capacity and improve groundwater management
7. Provide safe water for all communities
8. Increase flood protection
9. Increase operational and regulatory efficiency
10. Identify sustainable and integrated financing opportunities



Update 2013 -- a Resource Guide for Implementing the Governor's Water Action Plan

California Water Plan Update 2013 | Highlights

A Resource for Implementing the Governor's Water Action Plan

This is a guide to assist with implementing the Governor's priority water actions in a manner aligned with the State's long-term, strategic vision for water. It links two key State government plans: the Governor's Water more long-term California Water Plan Update 2013 (Update 2013). Linkages are shown between implementation actions in Update 2013 that advance one or more of the Governor's 10 priorities in the Five-Year Plan. Update 2013 represent the alignment of nearly 40 State agency plans and are well supported by the State's diverse stakeholder groups and opinion leaders.

Using this table as an entry point, implementers can access the over 350 specific actions in Update 2013. The Update 2013 actions are presented topically by the 17 objectives and related resource management strategies behind the objectives and RMs can be accessed in Volume 1, Chapter 8 Roadmap for Action and Volume 3 Resource Management Strategies, respectively.

Water Action Plan's 10 Essential Actions	Make conservation a California way of life	Invest in integrated water management and increase regional self-reliance	Achieve the coequal goals for the Delta	Protect and restore important ecosystems	Manage and prepare for dry periods	Expand water storage capacity	Provide safe drinking water and secure wastewater systems to all communities	Increase flood protection
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Update 2013 Objectives and Management Strategies

Update 2013 Objectives (Volume 1, Chapter 8)	#2 – Use and Reuse Water More Efficiently	#1 – Strengthen Integrated Regional Water Management Planning #17 – Improve Integrated Water Management Finance Strategy and Investments	#7 – Manage the Delta to Achieve the Coequal Goals for California	#4 – Protect and Restore Surface Water and Groundwater Quality #5 – Practice Environmental Stewardship #9 – Reduce the Carbon Footprint of Water Systems and Water Uses #14 – Public access to waterways, lakes, and beaches	#2 – Use and Reuse Water More Efficiently #3 – Expand Conjunctive Management of Multiple Supplies #7 – Manage the Delta to Achieve the Coequal Goals for California #8 – Prepare Prevention, Response, and Recovery Plans	#3 – Expand Conjunctive Management of Multiple Supplies (includes groundwater and surface storage)	#4 – Protect and Restore Surface and Groundwater Quality #12 – Strengthen Tribal/State and Natural Resource Management #13 – Ensure Equitable Distribution of Benefits	#6 – Improve Flood Protection
Resource Management Strategies (Volume 3)	<ul style="list-style-type: none"> Ag Water Use Efficiency Urban Water Use Efficiency Recycled Municipal Water Outreach and Engagement Economic Incentives 	All 30+ RMs can enhance regional self-reliance, depending on where they are implemented and how the benefits are allocated.	All 30+ RMs have the potential to help meet Delta coequal goals, depending on where they are implemented and how the benefits are allocated.	<ul style="list-style-type: none"> Six RMs pertaining to water quality Ag Lands Stewardship Ecosystem Restoration Forest Mgmt. Land Use Planning and Mgmt. Recharge Area Protection Sediment Mgmt. Watershed Mgmt. 	(Partial list) <ul style="list-style-type: none"> Ag Water Use Efficiency Urban Water Use Efficiency Recycled Municipal Water Conjunctive Mgmt. of Surface and Groundwater CALFED/Local/Regional Surface Storage 	<ul style="list-style-type: none"> Conjunctive Mgmt. of Surface and Groundwater CALFED Surface Storage Local/Regional Surface Storage 	Nearly all can help protect water and to all communities depending on where they are implemented and how the benefits are allocated.	

Cross-Cutting Objectives (Volume 1, Chapter 8)

- #10 – Improve Data, Analysis, and Decision-Support Tools
- #11 – Invest in Water Technology and Science
- #12 – Strengthen Tribal/State Relations and Natural Resource Management
- #13 – Ensure Equitable Distribution of Benefits
- #15 – Strengthen Alignment of Land Use Planning and Integrated Water Management
- #16 – Strengthen Alignment of Government Processes and Tools
- #17 – Improve Integrated Water Management Finance Strategy and Investments

Governor's California Water Action Plan



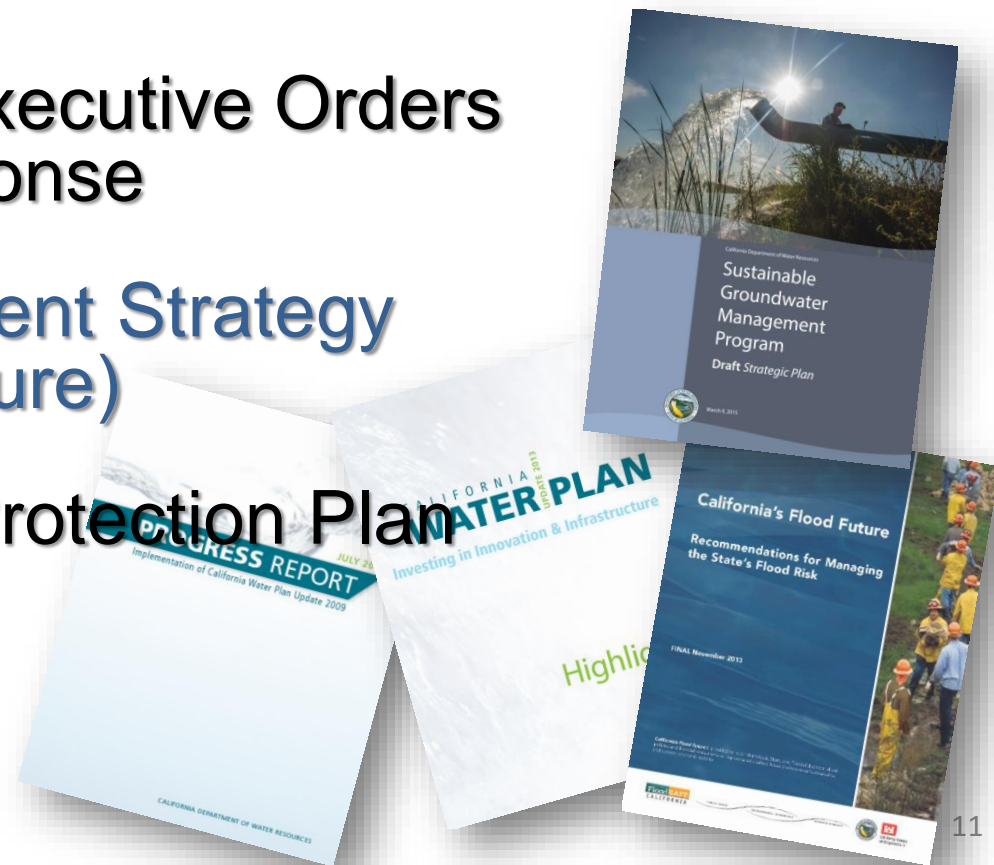
2014



VOLUME 1
The Strategic Plan

Alignment of State Plans & Initiatives

- Sustainable Groundwater Management Act
- Proposition 1 GO Bond
- Governor's Drought Executive Orders & State Drought Response
- State Flood Management Strategy (California's Flood Future)
- Central Valley Flood Protection Plan
- And others ...



Key Challenges & Drivers of Change

- Flood & drought risk – public health & safety
- Unreliable & degraded water supplies
- Groundwater depletion & subsidence
- Habitat & species declines & new regulations
- Growth & development
- Land use – water nexus
- Climate change -- impacts & adaptation
- Water governance & finance



Focus of Update 2018

Envisioning Cal Water Sustainability

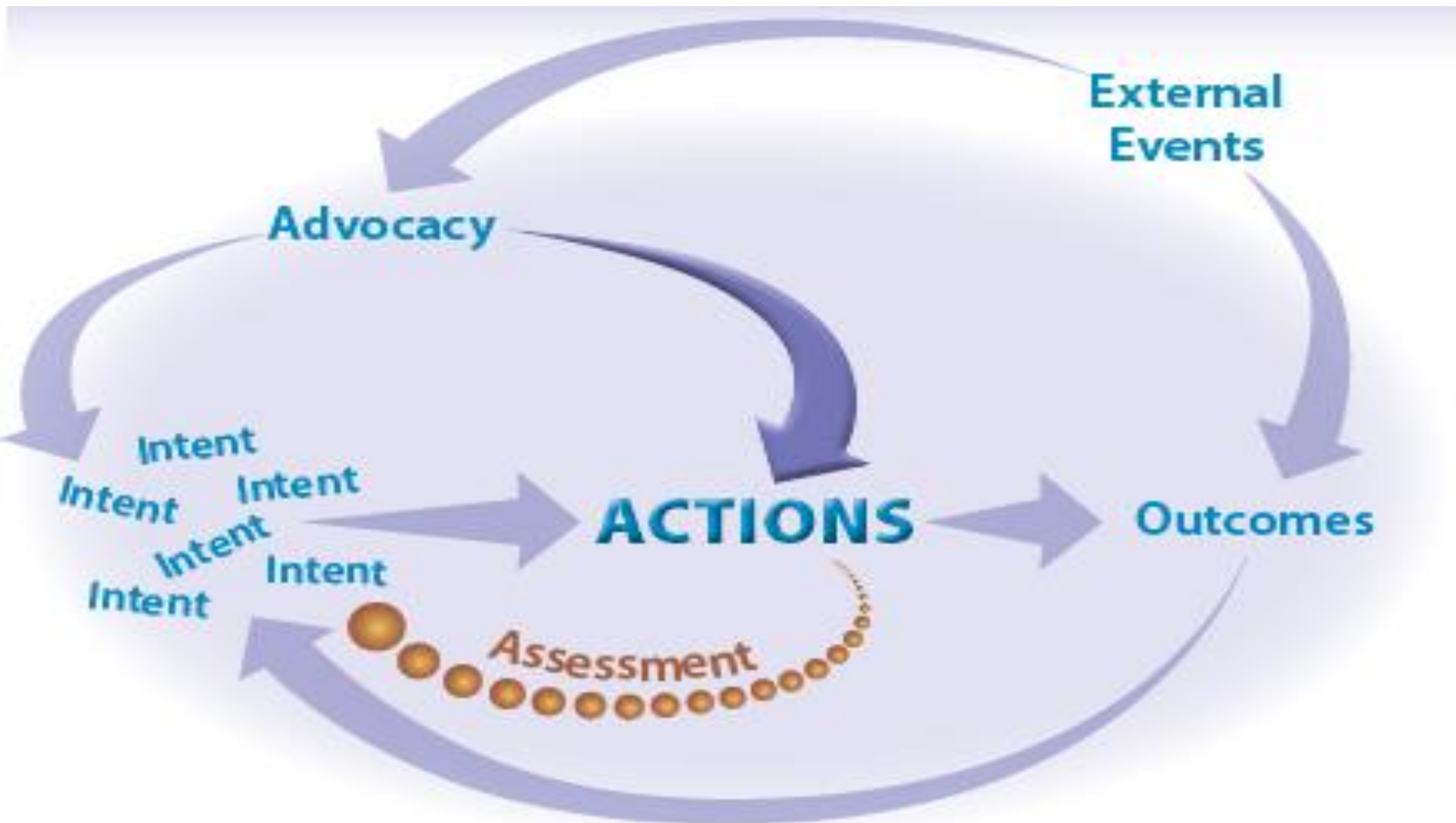


Features of California Water Plan 2018

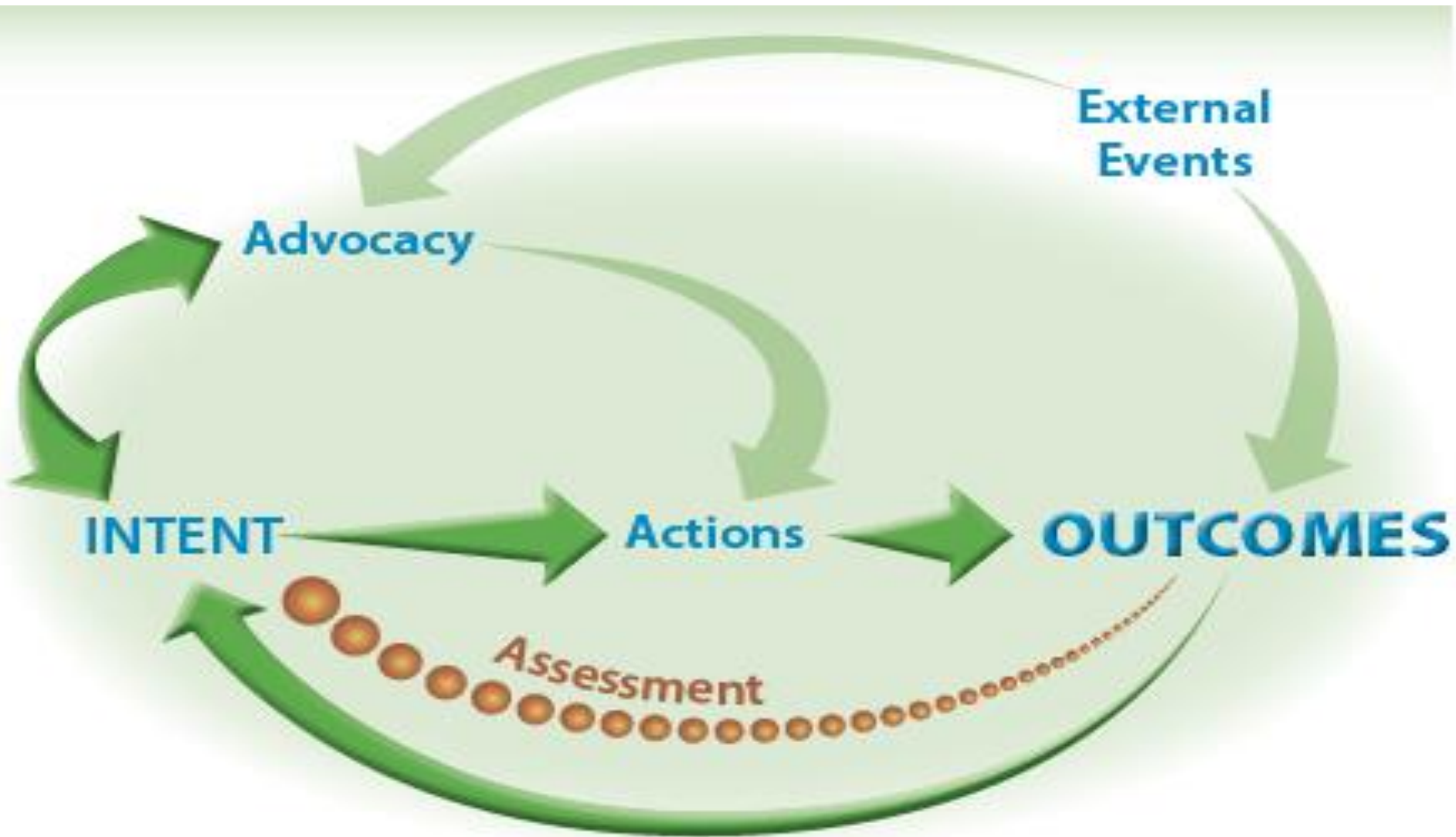
- Describe progress on Governor's Water Action Plan & implement Action 10 (water finance)
- Recommend steps to strengthen agency & regulatory alignment
- Deeper dive on sustainability -- identify intended outcomes & indicators to evaluate effectiveness
- NEW > 5-year State priorities & actions (2019 – 2023) to advance water reliability & sustainability
- NEW > Finance Plan showing needed revenues & funding portfolio



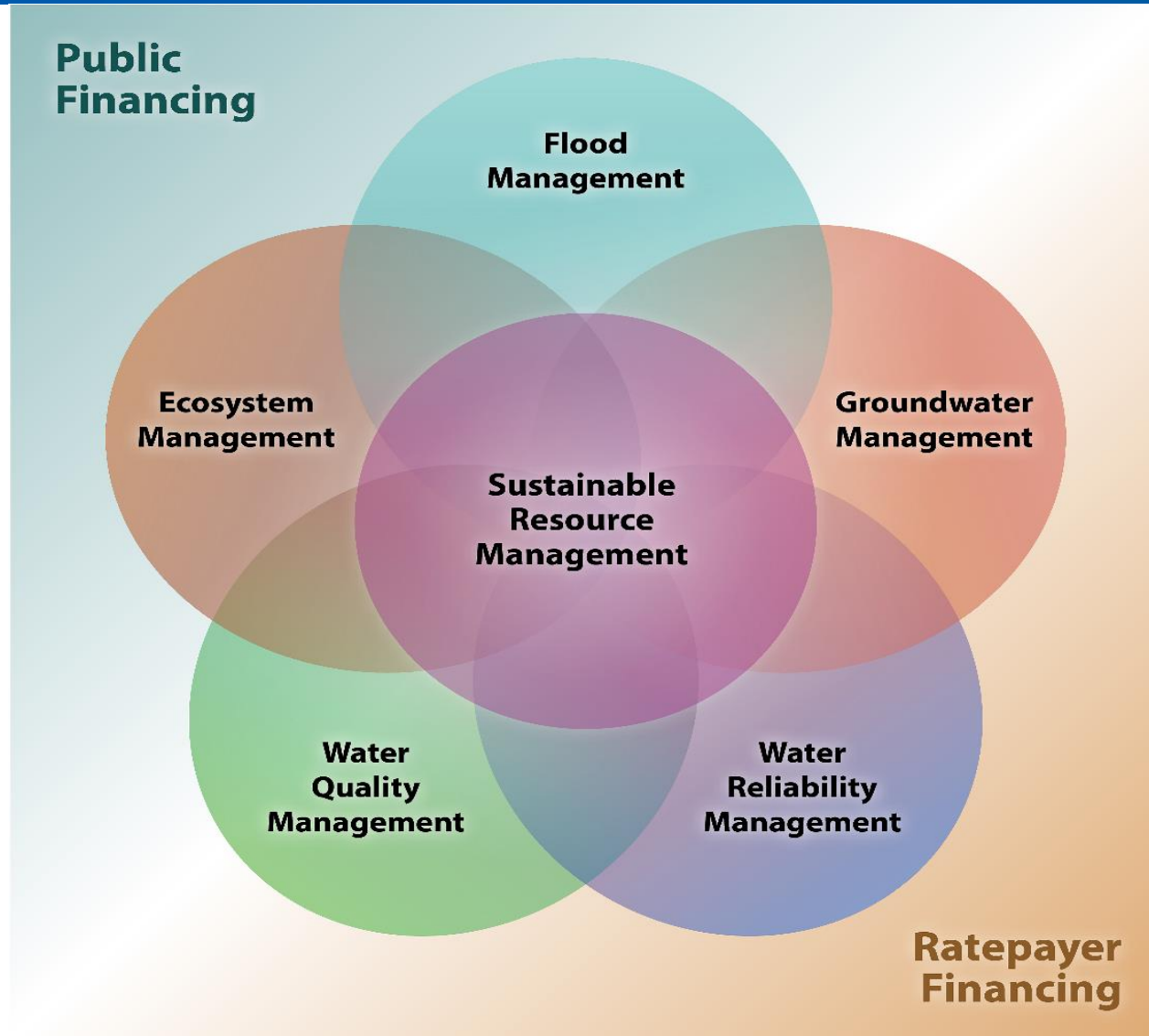
Current Water Management System Focuses on Advocacies and Actions



Desired Water Management System Focuses on Shared Intent & Outcomes



Advance a Comprehensive Approach for Sustainable Resource Management



Sustainability is ...

A resilient, dynamic balance among four societal values:

Public health and safety

Healthy economy

Thriving ecosystems

Enriching experiences



Building Shared Intent

A Prerequisite for Sustainability



Public Health & Safety -- Californians are protected from health and safety threats and emergencies



Healthy Economy -- California has a healthy economy and Californians have opportunities for economic prosperity



Thriving Ecosystems – California has healthy, functioning, resilient and diverse communities of plants and animals



Enriching Experiences -- Californians have opportunities for enriching experiences

Managing For Sustainability

Recommend Policy & Investment Priorities



Guiding Principles for Decision-Making to Balance Societal Values

- Manage California's water resources and management systems through the **dynamic balance** of four societal values.
- Apply California's longstanding constitutional principles of **reasonable use and public trust**, as the foundation for public policy-making, planning, and management decisions on California water resources.
- Promote **environmental justice** — the fair treatment of people of all races, cultures, and incomes.
- Help establish **shared intent** for sustainability with long-view perspective for water management.
- Strengthen **partnerships** and help enhance **governance** to improve and align at all levels of government for effective integrated water management.



Guiding Principles (Cont'd)

- Promote **regional planning and resource management** on a watershed scale to increase regional self-reliance and effectiveness.
- Acknowledge future **variability, risk and uncertainties**, and cultivate learning and adaptation in the decision-making process.
- Use **science, best data**, and local and **traditional ecological knowledge** in a transparent and documented process.
- Invest with a long-term view with substantial and predictable **public funding** to increase system flexibility and resiliency.



Focus of Water Plan Update 2018

Overcoming Challenges to Sustainability

- Understanding Sustainability & Shared Intent
- Decentralized Governance
- Inadequate & Unstable Finance
- Fragmented Regulatory Framework



Water Plan Implementation Cycle

Approach Compounds Over time



Ways to Access Water Plan Information

- Visit the Water Plan Web Portal
www.water.ca.gov/waterplan/

California Water Plan

The California Water Plan

The California Water Plan (Water Plan) is the State government's strategic plan for managing and developing water resources statewide for current and future generations. It provides a collaborative planning framework for elected officials, agencies, tribes, water and resource managers, businesses, academia, stakeholders, and the public to develop findings and recommendations and make informed decisions for California's water future. To learn more about the Water Plan, visit our [About the Water Plan](#) page.

Water Plan eNews Weekly Newsletter

The Department of Water Resources (DWR) and the California Water Plan publish a weekly electronic newsletter to keep you informed about Water Plan news and other announcements. We encourage individuals to subscribe to receive updates on current and future Water Plan activities and to keep up-to-date on water resources news. We welcome comments, suggestions, and any other news tips that may be of interest to water planners. Please email us.

See this week's edition: October 19, 2016.

- ➔ eNews Archives
- ➔ Subscribe to Water Plan eNews

Water Plan News - Announcements

California Water Plan Update 2018 - 2016 Plenary Meeting

The date has been set for the first of the annual plenary meetings for Water Plan Update 2018. It will be Tuesday, Oct. 25, in Sacramento. As the agenda, and other meeting details, are developed, they will be posted on the Meeting Materials page. The development of Update 2018 will include input from a Policy Advisory Committee (Policy AC) made up of representatives from a broad range of public and private sector interests. If you have any questions, please contact us at cwpcom@water.ca.gov. (09/30/2016)

- ➔ California Water Plan Update 2018
- ➔ Meeting Materials
- ➔ RSVP

California Water Plan Update 2018 - Tribal AC Orientation Webinar

DWR has scheduled an Orientation Webinar for the Water Plan Update 2018 Tribal Advisory Committee (Tribal AC). Please register to participate. If you have any questions, please contact us at cwpcom@water.ca.gov. (10/14/2016)

- ➔ Webinar Registration
- ➔ Tribal AC Webpage
- ➔ Meeting Materials



California Water Plan Home

- ➔ California Water Plan Updates
 - ➔ Update 2018
 - ➔ Update 2013
 - ➔ Previous Reports
- ➔ About the Water Plan

COLLABORATION

- ➔ Calendar
- ➔ Meeting Materials
- ➔ Participation
- ➔ Public Comments

RESOURCES

- ➔ Resource Management Strategies
- ➔ Water Portfolios
- ➔ Water Footprint
- ➔ Sustainability
- ➔ Groundwater
- ➔ Scenarios
- ➔ GIS Data
- ➔ Water Quality
- ➔ More...

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Wednesday Update **Year-End 2015**

This weekly electronic newsletter is designed to keep you current on California Water Plan news. We welcome comments, suggestions and any news tips that may be of interest to water planners.

California Water – A Tale of Extremes

2015 was another reminder that California's climate and hydrology pose many challenges for water managers. The state has endured four years of drought – one of the worst in recent history – and now, the forecast of a strong **El Niño**, brings the possibility of serious flooding. Ongoing and future changes to the climate are driving rising sea levels, altered precipitation patterns, and reduced Sierra Nevada snow pack – California's largest surface water reservoir.

Managing Water – Working Together to Shape Our Future

The water challenges facing our communities, watersheds, and economies compelled the State of California to embark on a comprehensive, multi-agency, and practical approach to water resources management. The process, outlined in the Governor's [Water Action Plan](#), encourages implementation of integrated, multi-benefit programs and projects.

Governor's Water Action Plan

- Ensure reliable water supplies for all Californians.
- Build capacity for regional sustainability.
- Manage floodwaters while protecting ecosystems.
- Take action to reduce residual risk.
- Set planning priorities and investments for a sustainable future.
- Protect our communities through State, federal, tribal, and local cooperation and commitment.

Since 2014, the action plan has focused State water leaders on common goals and actions, and it has leveraged general obligation bond revenues with existing agency budgets and other funding sources. But, full implementation of the plan, and related actions to improve water sustainability, will require investments above the current baseline budgets of State, federal, tribal, and local governments. Multiple, and more stable, funding sources will be needed to improve flood protection, provide reliable and clean water supplies, restore and enhance ecosystems, and provide for enriching experiences – that is, to achieve sustainable water management. Details are available in DWR's partnership paper, [Managing California Water Through Federal, State, and Local Cooperation](#).

Ever-greening California Water Plan for Update 2018

To be relevant, California Water Plan Update 2018 needs to report on Water Action Plan implementation and its related State initiatives such as the [Sustainable Groundwater Management Act](#), [State drought response](#), [Exposition 1 Water Bond](#), [future IRWM strategies](#), and [flood investment strategy](#). In addition to being State government's long-term strategic water plan, Update 2018 needs to – *for the first time* – identify specific outcomes and metrics to track performance, prioritize near-term State actions and investments, recommend financing methods having more stable revenues, and inform water deliberations and decisions as they unfold.

In 2016, DWR will engage State, federal, tribal and local agencies and stakeholders in the development of the plan. Opportunities to get involved will be announced in the [California Water Plan eNews](#).

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Questions & Comments



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